Panasonic

HOME APPLIANCES 2010

ENERGY-SAVING REFRIGERATORS

WATER-SAVING WASHING MACHINES

VACUUM CLEANERS

MICROWAVE OVENS

BREADMAKERS

PERSONAL CARE

INTELLIGENT
LIVING
MATTERS

Panasonic
ideas for life

CONTENTS

REFRIGERATORS 04–13

Introduction	04–11
Side-by-Side	12
Refrigerators	13

WASHING MACHINES 14-30

Introduction	15-20
Fully Automatic Washing Machines	21-22
Reliability Facts	23-30

MICROWAVES 31-37

Introduction	32–33
Combination Microwaves	34–35
Microwave with Grill	36
Microwave Only	37

BREADMAKERS 38-39

Introduction	38
Breadmakers	39

VACUUM CLEANERS 40-45

Introduction	40
Bagless Upright Cleaners	43-44
Bagged Upright Cleaners	44
Bagged Cylinder Cleaners	45

MEN'S SHAVERS 46-47

Shavers	46–47

MEN'S GROOMING 48–49

Trimmers	48
Body Shavers	49
Clippers	49

DEPILATION 50-51

Epilators	50-51

HAIR CARE 52

Straightener & Curler	52

TECHNICAL SPECIFICATIONS 53-59

Refrigerators	53
Washing Machines	55
Microwaves	55-56
Breadmakers	57
Vacuum Cleaners	57-58
Men's Shavers	58-59
Men's Grooming	59
Epilators & Lady Shavers	59

Our World Matters

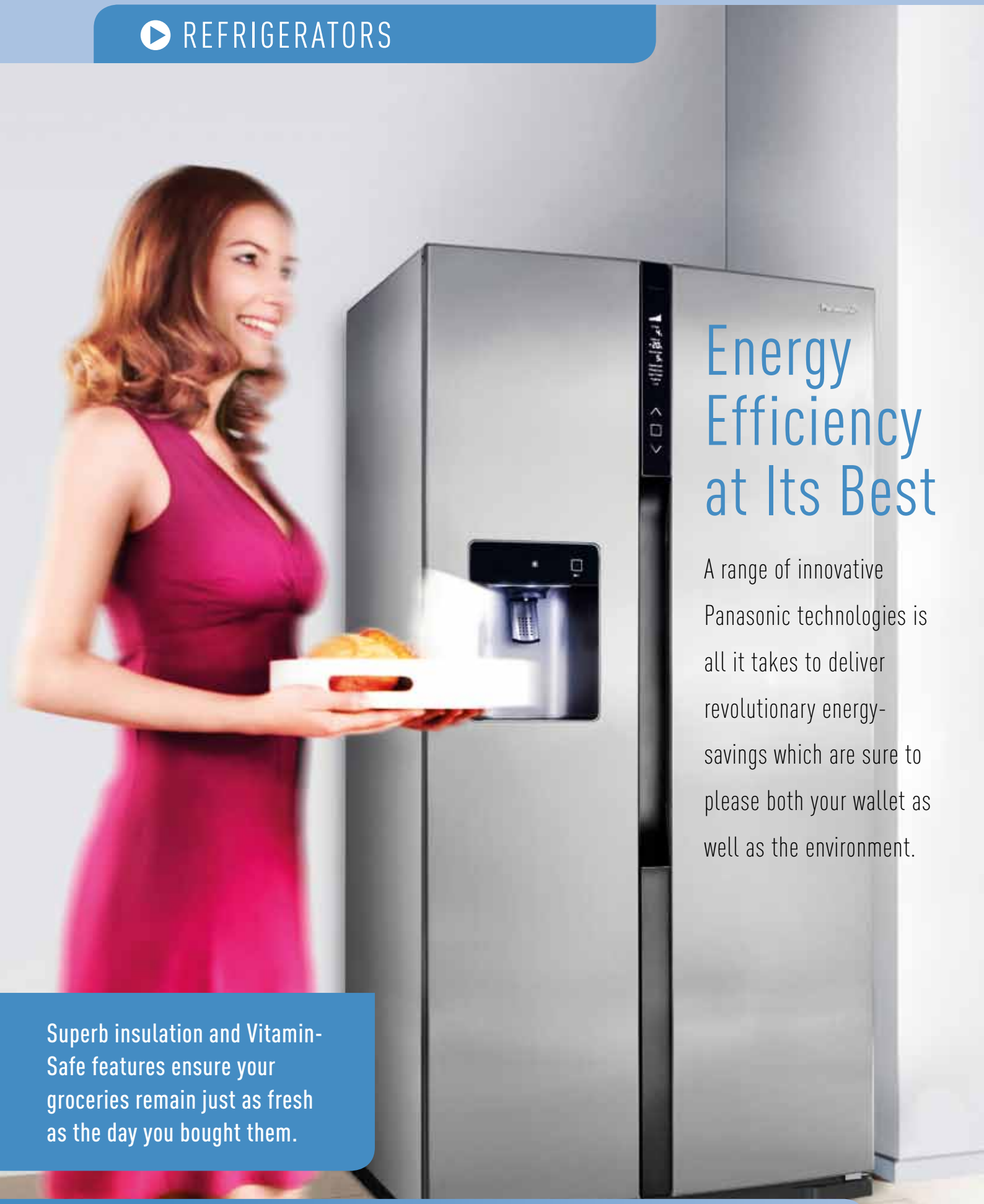
Eco-Friendly Technology You Can Rely on

Panasonic introduces a new standard in home appliances. Fresh-thinking design, clever features and user-friendly technology – all engineered to standards you can rely on. Panasonic is renowned for producing some of the highest quality, most technologically advanced consumer electronics in the world. We have been applying this same know-how to home appliances for over fifty years in Japan, and now these energy-efficient, eco-friendly appliances are available here in Europe. Advanced energy-saving technologies, revolutionary design and the ultimate in convenience combine to bring a major upgrade to your kitchen.

ECO IDEAS

Our commitment to the environment When it comes to being environmentally friendly, at Panasonic we approach the challenge differently by examining it in every aspect of our business. Unlike other companies, Panasonic controls every aspect of its product manufacture, from the design process to production. So not only do we design eco-friendly products, we produce them in a more environmentally friendly manner as well.

Catlin Arctic Survey With the 'eco ideas' strategy, Panasonic is promoting environmental activities which contribute to preserving the world we live in. As a part of the Panasonic 'eco ideas' strategy in Europe, the company is sponsoring the Catlin Arctic Survey (CAS). The international collaboration between polar explorers and scientific bodies seeks to resolve one of the most important environmental questions of our time: How long will the Arctic Ocean's sea ice cover remain a permanent feature of our planet? The Arctic is a global temperature regulator, with many delicately balanced relationships that have the potential to seriously amplify the impact of climate change around the world. Our support has been contributing to enable the CAS polar explorers to collect valuable scientific data about the real thickness of the ice and snow cover. Those data will help scientists to make precise analyses and predictions about the future development of the Arctic as one of the most sensitive regions in our world – especially with view to its unique ecosystems and species, such as polar bears.



Energy Efficiency at Its Best

A range of innovative Panasonic technologies is all it takes to deliver revolutionary energy-savings which are sure to please both your wallet as well as the environment.

Superb insulation and Vitamin-Safe features ensure your groceries remain just as fresh as the day you bought them.

twin-ecocooling

eco ideas

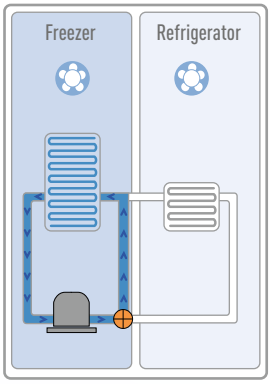
Household appliances account for the majority of all energy needs in the home – especially refrigerators, which have to run day and night, all year long. Innovative new features in Panasonic refrigerators make them some of the most energy efficient, with an energy label rating of A++ and No Frost technology.

Inverter technology

Conventional refrigerators have just one power level, but new Panasonic refrigerators have various power levels to ensure the most efficient use of energy. Temperature sensors and microprocessor technology work together so the Inverter can finely adjust the compressor – enabling the refrigerator to operate at the most efficient power level. At night, the refrigerator works at a low power level and has extra power for quickly freezing items if you need to.

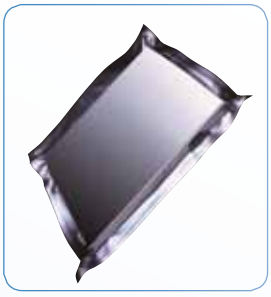
Twin-Eco Cooling system

Thanks to the smart combination of Inverter, U-Vacua and Twin-Eco Cooling technologies, Panasonic side-by-side refrigerators achieve the excellent energy label rating of A++[2]. The majority of the energy is used to cool the freezer. Panasonic Twin-Eco Cooling has an EcoValve to close off the cooling circuit for the refrigerator and concentrate on the freezer – ensuring eco-friendly cooling only where it is needed. This saves energy compared to traditional twin cooling systems, which always cool both the fridge and freezer, even if it is not needed in the refrigerator.



U-Vacua – Vacuum insulation panel

Traditional insulation requires more material for better performance, creating thicker walls and reducing space. Now, Panasonic introduces a brand new technology that uses less material. Glass-fibre, processed in a vacuum, produces an ultra-thin sheet that provides 20 times more insulation than traditional materials. The result is higher energy efficiency, a reduction in the amount of materials needed and more space in the freezer for all your food.



Quiet operation

Panasonic refrigerators stand out from the rest, especially thanks to their low-noise operation. At just a whisper-quiet 38dB or 36dB[1], they are some of the quietest in their class. So quiet, you will not even notice the refrigerator is there, and working normally.

No Frost technology

Traditional refrigerators with direct cooling form frost and ice, especially in the freezer. And it is this layer of ice which reduces the cooling effect, forcing the refrigerator to consume more power to achieve the same desired temperature level. To save energy, Panasonic refrigerators are equipped with No Frost technology. It keeps your refrigerator frost-free and performing efficiently, with the added convenience of not having to defrost.

[1] The NR-B53V1 and NR-B54X1 are 38dB quiet, while the NR-B30FX1 operates at a mere 36dB.
[2] NR-B53V1 only.

Keeping Food Fresh – From the Garden to Your Table

SPECIAL FEATURES

Panasonic refrigerators offer three smart compartments with different temperature and humidity levels – to provide optimum storage for all your produce and meat. The Vitamin-Safe and 5°C freshzone compartments are even equipped with two flashing LEDs to retain vitamins.

- **0°C:** Chilling temperatures and low humidity are ideal for storing fish and meat.
- **Vitamin-Safe:** High humidity, adjustable temperature from 0°C to 5°C and LEDs to retain vitamins.[1]
- **5°C freshzone:** High humidity, fixed temperature at 5°C and LEDs to retain vitamins for root vegetables and other produce sensitive to low temperatures.

Vitamin-Safe compartment Standard refrigerators are normally too dry for storing fruit and vegetables, only offering a single temperature for the entire refrigerator. But not with Panasonic. These refrigerators feature the Vitamin-Safe compartment, which is optimised to a high humidity level. The temperature can also be adjusted between 0˚C and 5˚C, to ensure your fruit and vegetables stay fresher for longer.[1]

Retaining vitamins Fruit and vegetables stored in the dark lose vitamins. To prevent this, Panasonic uses two flashing LEDs to simulate the blue and green hues of sunlight. The LEDs activate the fruit and vegetables' natural defences and stop them from losing vitamins. This positive effect has been tested and certified by SLG, a renowned independent test laboratory.

Approved by SLG Prüf- und Zertifizierungs GmbH, certifying the 'optimisation of the storing system by using Vitamin-Safe' (SLG is a renowned independent test laboratory).

[1] NR-B53V1 model only.

Advanced Technology Keeps Food Safe

With a Panasonic refrigerator, you can rest assured knowing that all of your healthy fruits and vegetables are perfectly stored – with a freshness and cleanliness that only the advanced Hygiene Active system can deliver.

SPECIAL FEATURES

hygieneactive

Our Hygiene Active system is a combination of technologies which protect your food from coming into contact with harmful bacteria.

Used in various products, silver is traditionally known for its antibacterial properties. The combination of a silver filter, which produces silver ions, as well water mist and blue LED light forms an anti-bacterial cleanser called 'Hydroxy Radical', which naturally occurs in the troposphere. This natural effect is produced inside a Panasonic refrigerator, eliminating 99.9999%[1] of harmful bacteria.

Air circulation The Hygiene Active system is placed at the back of the refrigerator in the centre of the cooling airflow. At three different points, the cold and clean air is blown into the refrigerator to create a constant airflow. This ensures maximum hygiene and eliminates unwanted odours.

[1] Figure based on the ISO 22196 testing measure.

Approved by SLG Prüf- und Zertifizierungs GmbH, certifying the 'optimisation of the air by using Hygiene Active' (SLG is a renowned independent test laboratory).

REFRIGERATORS

Storage Space in Showroom Style

Easily fit a weeks' worth of groceries! Panasonic places importance on economy of space and aesthetics to provide modern refrigerators that offer the ideal space for all your food.

SPECIAL FEATURES

Perfect storage solution In a new Panasonic side-by-side refrigerator, there is a spot for everything. Long door pockets, adjustable tempered glass shelves, a range of practical deep compartments and more use all the interior space to a maximum – so all your food is optimally stored and easy to find.

1. **Spacious door pocket** You have enough room for all kinds of bottles. The smart bottle stopper keeps smaller bottles right in place.
2. **Adjustable shelves** Adjustable tempered glass shelves can hold up to 100kg, making them strong enough for heavy pots.
3. **Optimal storage** These drawers feature 3 different temperature and humidity levels to provide optimum storage for various foods and produce. The 0°C compartment is ideal for fish and meat, while the Vitamin-Safe and 5°C freshzone drawers perfectly store all your fresh fruit and vegetables.
4. **Compact ice-maker** The space-saving ice-maker frees up more room inside the freezer.
5. **Extra-wide freezer** The 30cm-wide freezer provides enough space to store large items like leg of lamb, salmon or even a 12" pizza.
6. **Large compartments** Three large compartments easily hold a range of big-sized bags such as peas or chips.

LED control panel The innovative control panel – to adjust temperature, select options like super freeze and eco cooling – is situated in the centre between the doors. Plus, the ice/water dispenser has its own stylish LED panel to select water or ice. The touch control available on the NR-B53V1 is not only highly modern, with the half-mirror finish it is also a visual highlight.

LED lighting Thanks to LED tower lighting that brightly illuminates the refrigerator from both sides, you will clearly see everything in the fridge. A third strip of LEDs is also located in the freezer. Plus, LEDs use much less electricity – saving energy.

Deli case The right place for sliced meat, cheese and sushi (only available with the NR-B53V1).

Wine rack The adjustable, full-width wine rack holds a wide range of various bottles.

REFRIGERATORS

SPECIAL FEATURES

Frost-free performance means no frost will form on food or the interior. You will benefit from reduced electricity bills, and you will not have to spend any precious time defrosting.

1. **Adjustable tempered glass shelves** The glass shelves can hold up to 100kg, making them strong enough for heavy pots.

2. **Wine rack** The adjustable wine rack holds a wide range of various bottles.

3. **Optimal storage** The Vitamin-Safe drawer provides optimum storage conditions for fruits and vegetables.

4. **Ice tray and box** The ice tray and spacious ice box allow for storage of 135 ice cubes.

Ease of Use and Effective Storage

Panasonic 2-door refrigerators offer an intuitive, sleek control panel and host of convenient features that make using them easier than ever.

LARGE LCD CONTROL PANEL

Easy-to-see, large panel on the front of the refrigerator lets you quickly select or change temperature settings using one-touch buttons.

Inverter power indicator Gives a visual indication of the Inverter's current energy consumption.

Temperature indicator Lets you know the temperature settings and current temperature for each compartment.

Temperature setting buttons Change the temperature settings for each compartment separately using one-touch buttons.

Energy-saving Changes the temperature for all three compartments to the most energy efficient.

Super Freeze Use this setting when you want to quick-freeze items. It can operate continuously for up to 50 hours.

Vitamin-Safe The LEDs in the fruit and vegetables compartment illuminate, and the vitamin-saving function is activated.

Hygiene Active Activate the Hygiene Active system at the touch of a button.

Alarm/Child Lock Turn off the alarm, which sounds if the door is left open or there are any abnormalities in temperature. Press and hold this button to lock all buttons.

A++ No Frost

NR-B53V1
Side-by-Side Refrigerator

- Energy Efficiency A++ with No Frost Technology
- Twin-Eco Cooling, Inverter Compressor and U-Vacua Vacuum Insulation Panel
- Ice/Water Dispenser
- Fresher Fruits and Vegetables with Vitamin-Safe and 5°C Freshzone
- Hygiene Active
- Touch-Control Display
- 38dB Quiet Operation
- Functional Interior Design
- No-handle Design

hygieneactive
vitaminsafe
5°C freshzone
twin-ecocooling

energy saving recommended
Certification mark

hygieneactive
5°C freshzone
twin-ecocooling

energy saving recommended
Certification mark

A+ No Frost

NR-B54X1
Side-by-Side Refrigerator

- Energy Efficiency A+ with No Frost Technology
- Twin-Eco Cooling and Inverter Compressor
- Ice/Water Dispenser
- Fresher Fruits and Vegetables with 5°C Freshzone
- Hygiene Active
- 38dB Quiet Operation
- Stylish LED Display
- Functional Interior Design
- No-handle Design

NR-B30FX1

2-Door Fridge Freezer

- Energy Efficiency A++ with No Frost Technology
- Inverter Compressor and U-Vacua Vacuum Insulation Panel
- Fresher Fruits and Vegetables with Vitamin-Safe
- Hygiene Active
- 36dB Super-Quiet Operation
- Spacious Interior Design
- LCD Display

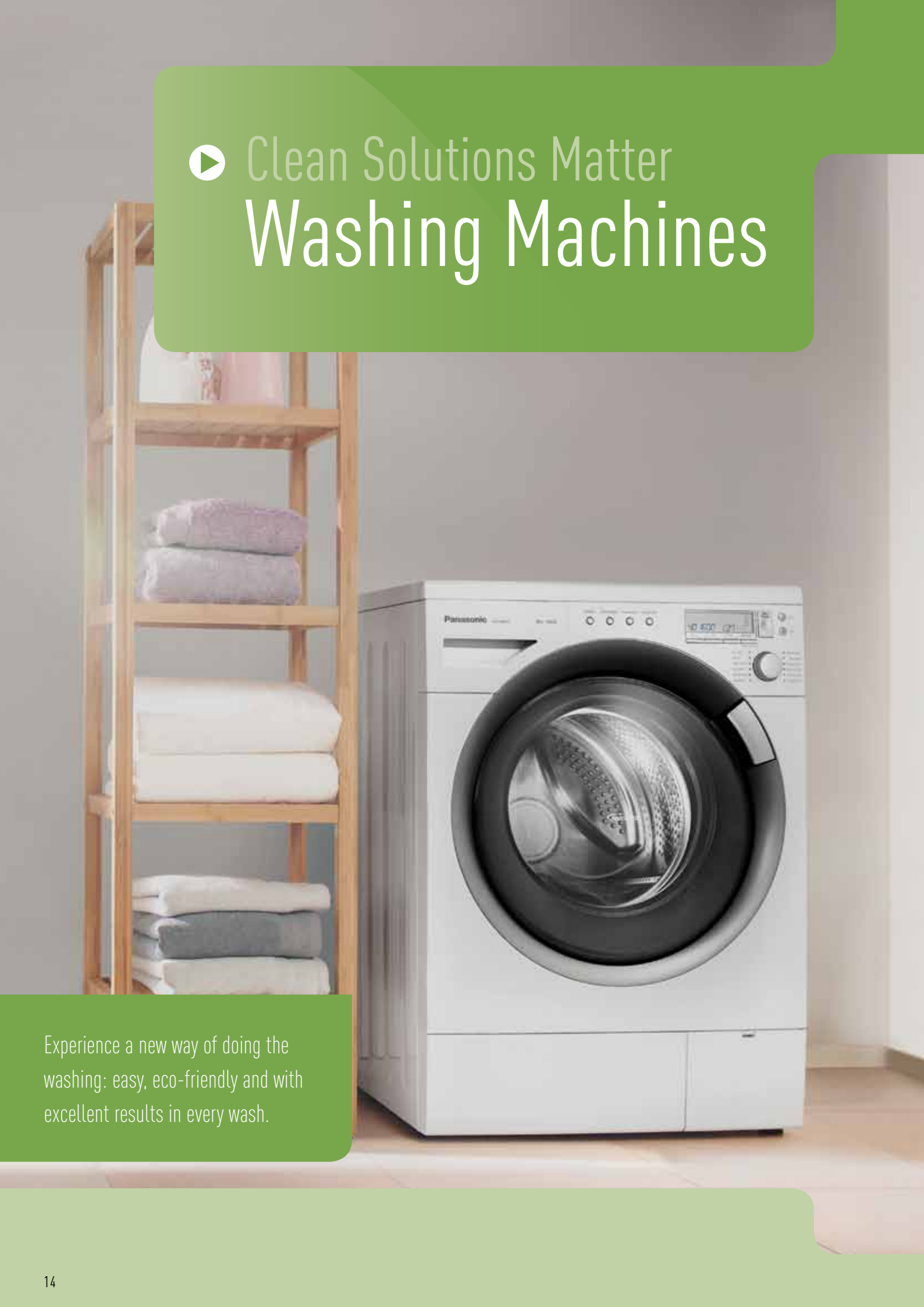
NR-B30FG1

2-Door Fridge Freezer

- Energy Efficiency A+ with No Frost Technology
- Inverter Compressor
- Fresher Fruits and Vegetables with Vitamin-Safe
- Hygiene Active
- 37dB Quiet Operation
- Spacious Interior Design
- LCD Display

Clean Solutions Matter

Washing Machines



Experience a new way of doing the washing: easy, eco-friendly and with excellent results in every wash.

Less Water, Better Washing Results

ENERGY-SAVING FEATURES

Top energy efficiency with Inverter Control technology

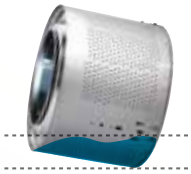
The Inverter technology is key to Panasonic industry-leading performance. The Inverter changes the motor's rotation and output based on sensors inside the washing machine – to achieve perfectly clean clothes. This clever technology also ensures efficient energy consumption, using 30% less energy than an A-rated model. Due to the quiet brushless Inverter motor, you can barely hear the machine running.

*Based on Cotton-Eco 60°C + Intensive
*30% more efficient than the A class standard (0.19 kWh/kg)

Water-saving tilted drum

This enables Panasonic washing machines to take another step in making your washing needs environmentally friendlier and more affordable. Reducing water consumption without compromising on washing results is a difficult task, but not with Panasonic. The drum of the machine is tilted by ten degrees, significantly reducing the water levels. Along with the 3D Sensor and Inverter technology, the washing machine can control the movement of the drum to provide the very best washing results. Although the machine uses less water, clothes are fully rinsed, leaving them free of all detergents. New models consume only 6.3 litres of water per kilogram of clothing – which is a mere 50 litres for a full 8-kilogram load[1].

Conventional drum



Tilted drum

Eco 15°C Wash cycle

So you can save valuable energy, new Panasonic washing machines give you the option of washing your clothes at a low 15°C. This specially developed programme consumes less energy while delivering excellent results.[2]

eco ideas

Auto Power Off

Panasonic washing machines save energy even when you have finished washing. The machine automatically turns the power off once the washing programme has completed.

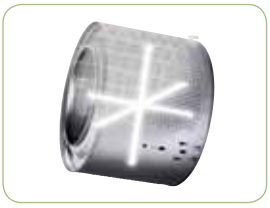
AUTO POWER OFF

[1] Using the Cotton-Eco 60°C + Intensive.
[2] Panasonic recommends using a highly concentrated liquid detergent.

Next Generation in Laundry Performance

The new Panasonic washing machine uses a 3D Sensor to detect the movement of each piece of laundry and automatically adjusts the rotation speed accordingly. This ensures that your clothes are thoroughly washed. The added bonus: with its tilted drum, the washing machine uses less water too.

SPECIAL PERFORMANCE FEATURES



3D Sensor wash The all-new 3D Sensor analyses the movement of the drum in its three dimensions, detecting the movement of the laundry in the machine and making the necessary adjustments so the laundry tumbles from the optimal position.

Speed Control Standard washing machines rotate at a fixed speed and cannot adjust to the changing needs of each laundry load. But a Panasonic washing machine with the advanced 3D Sensor detects how the drum moves according to the load – while a variable Speed Control system uses the sensor's data to finely adjust motor operation. This creates an ideal three dimensional washing effect and eliminates unbalanced loads. With a more balanced washing cycle, you experience less stretching and tangling and fewer wrinkles, protecting your valuable clothes!

Auto Load Sensor / Foam Sensor
Save energy and water with half or partial loads. The Auto Load Sensor detects how large the load of laundry is and reduces the water and energy consumption to the necessary level. Sometimes too much detergent is added to the machine, creating an abundance of foam which hinders cleaning performance. The Foam Sensor determines if there is too much foam in the machine and reduces it by adding water.

Wide-angle shower One factor in better washing performance is soaking the clothes properly before the first cycle. The wide-angle shower at the top of the drum helps to soak the laundry thoroughly at the start of the washing cycle, which in turn allows the detergent to soak into the fabric quicker. The same is true for rinsing: the wide-angle shower rinses your clothes effectively so they are free of detergents.

Worry-free washing The 'Aqua Protection System' is a Panasonic original safety system that ensures watertight safe operation. When water is filling the drum and draining out, sensors detect if there is any leakage and respond by shutting off the water supply at the source. Panasonic guarantees this protection from water damage for the lifetime of the machine[1]. In addition, the child lock function keeps the door locked so it cannot be opened while the machine is running – and it locks the buttons to prevent children from changing programmes.

aquaprotection system

[1] Only if the washing machine is professionally installed.

Easy to Use, Highly Functional

At Panasonic, we develop products with you in mind, especially in regards to convenience and ease of use. That is why new Panasonic washing machines have an extra-large capacity. You can wash less frequently – not only saving energy and water, but also your precious time.

SPECIAL CONVENIENT FEATURES

Panasonic washing machines make your life a whole lot easier with a range of convenient features – such as 8kg loading capacity, quiet operation, easy-to-read large LCD displays and all-round intuitive operation.

8kg loading capacity The more laundry you can fit into the washing machine, the better you can save time, water and electricity. Panasonic has increased the loading capacity of new models to a spacious 8kg – while achieving the lowest possible water and power consumption at the same time.

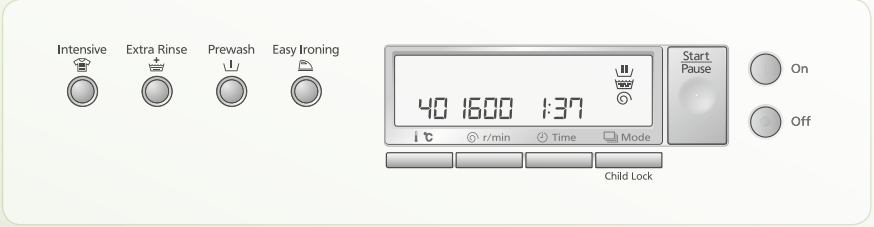
Quiet operation By using a brushless motor with Inverter Control technology and a low-vibration design, Panasonic washing machines have significantly reduced operation noise. Harsh, high-frequency spinning noise is now a thing of the past.

Quiet operation: 50dB (wash), 70dB[1] (spin)

[1] NA-148VA2 and NA-128VA2.

Short programmes Since most laundry is only lightly soiled, Panasonic has reduced the length of all washing programmes. Plus, Panasonic washing machines feature a 'Quick 60' programme that has a washing cycle of only 60 minutes – while maintaining superior results. The 'Rapid 15' programme is ideal for refreshing a 2kg of laundry load in just 15 minutes.

Large digital LCD The large LCD display on the NA-168VX2 uses a white backlight for easy and clear viewing of key functions such as the programme status, settings and temperature readings.



Customised Fabric Care

SPECIAL CARE FEATURES

Shirts

'Shirts' programme Ideal for washing shirts and blouses that easily become soiled at the collar and cuffs, the 'Shirts' programme removes common yet unsightly stains. Thanks to the extra soaking cycle, sweat stains are effectively removed so you can carry on with business in confidence.

Sportswear

'Sportswear' programme The 'Sportswear' programme is just what you need for cleaning heavily soiled kits or socks with stubborn stains from mud or grass – returning them to their clean whites and bright colours. You can focus on the game and let your Panasonic washing machine take care of dirt and stains.

Baby Care

'Baby Care' programme Panasonic knows you only want the very best for your child. So choose the 'Baby Care' programme on select Panasonic washing machines. It not only perfectly washes clothes, it also uses three rinse cycles to ensure that only the fabric touches your baby's sensitive skin.

Wool/Silk

Dedicated fabric care Use the 'Delicates' and 'Wool/Silk' programmes for wool, lace and other delicate garments. The cradle-like rotation ensures gentle washing, protecting your delicates and making them last longer.

SPECIAL PROGRAMMES

QUICK 60
A 60-minute programme for lightly soiled items.

BEDDING
For large items like duvets, blankets or curtains.

DELICATES
For wools, satin, lace and other delicate fabrics.

RAPID 15
A 15-minute programme to refresh small loads of laundry.

ECO 15°C WASH
Eco-friendly, thorough washing at a low temperature of 15°C.

MEMORY
Save your favourite wash programme for quick, one-touch start-up.

NA-168VX2
Fully Automatic 1600 Spin Washing Machine

- 8KG Capacity
- Top Energy Rating: 30% Better than A rating
- Top Water Savings with 10˚-Tilted Drum
- 3D Sensor Wash
- Brushless Motor and Inverter
- Short Programmes, Including Quick 60 and Rapid 15
- Eco 15°C Wash, Memory Function, Sportswear Programme
- Aqua Protection System
- LCD Display

aquaprotection system

*Based on Cotton-Eco 60°C + Intensive
*30% more efficient than the A class standard (0.19 kWh/kg)

energy saving recommended
Certification mark

Good Housekeeping Institute APPROVED 2010

NA-168VG2
Fully Automatic 1600 Spin Washing Machine

- 8KG Capacity
- Top Energy Rating: 30% Better than A rating
- Top Water Savings with 10˚-Tilted Drum
- 3D Sensor Wash
- Brushless Motor and Inverter
- Short Programmes, Including Quick 60 and Rapid 15
- Eco 15°C Wash, Memory Function, Sportswear Programme
- Water Leakage Protection
- LED Display

*Based on Cotton-Eco 60°C + Intensive
*30% more efficient than the A class standard (0.19 kWh/kg)

energy saving recommended
Certification mark

Good Housekeeping Institute APPROVED 2010

NA-148VA2
Fully Automatic 1400 Spin Washing Machine

- 8KG Capacity
- Top Energy Rating: 30% Better than A rating
- Top Water Savings with 10˚-Tilted Drum
- 3D Sensor Wash
- Brushless Motor and Inverter
- Short Programmes, Including Quick 60 and Rapid 15
- Eco 15°C Wash, Sportswear and Baby Care Programmes
- Water Leakage Protection
- LED Display

*Based on Cotton-Eco 60°C + Intensive
*30% more efficient than the A class standard (0.19 kWh/kg)

NA-128VA2
Fully Automatic 1200 Spin Washing Machine

- 8KG Capacity
- Top Energy Rating: 30% Better than A rating
- Top Water Savings with 10˚-Tilted Drum
- 3D Sensor Wash
- Brushless Motor and Inverter
- Short Programmes, Including Quick 60 and Rapid 15
- Eco 15°C Wash, Sportswear and Baby Care Programmes
- Water Leakage Protection
- LED Display

*Based on Cotton-Eco 60°C + Intensive
*30% more efficient than the A class standard (0.19 kWh/kg)

NA-147VB2
Fully Automatic 1400 Spin Washing Machine

- 7KG Capacity
- Top Energy Rating: 20% Better than A rating
- Top Water Savings with 10˚-Tilted Drum
- 3D Sensor Wash
- Brushless Motor and Inverter
- Short Programmes, Including Quick 60 and Rapid 15
- Water Leakage Protection
- LED Display

*Based on Cotton-Eco 60°C + Intensive
*20% more efficient than the A class standard (0.19 kWh/kg)

Durability

You casually drop the family's laundry into the washing machine and turn on the switch. Then you go on to do what you want, possibly even forgetting that the washing machine is at work. That is how a washing machine should be. And it should do this for many years. Panasonic believes the true value of a washing machine is to remain almost unnoticed as it works. To achieve this, we carefully design every detail and conduct rigorous durability tests.

SIMULATED 23-YEAR LIFESPAN

In addition to normal operating coanditions, the Long-Term Durability Test is conducted in a high-temperature, high-humidity test chamber at a temperature of 40°C and humidity of 95%.

Long-Term Durability Test Panasonic focuses on achieving long-term durability. To ensure this, we conduct a durability test with 5,000 wash cycle repetitions, a battery of other operating tests under conditions such as high temperature/high humidity and low temperature operation, and 24-hour continuous washing and washing with high-temperature water. Assuming that the average number of home washes is 220 times a year, this rigorous testing simulates about 23 years of use.*

The Long-Term Durability Test shown at the left also tests the gaskets.

For use in cold climates, the Long-Term Durability Test is conducted in a low-temperature test chamber at –5°C.

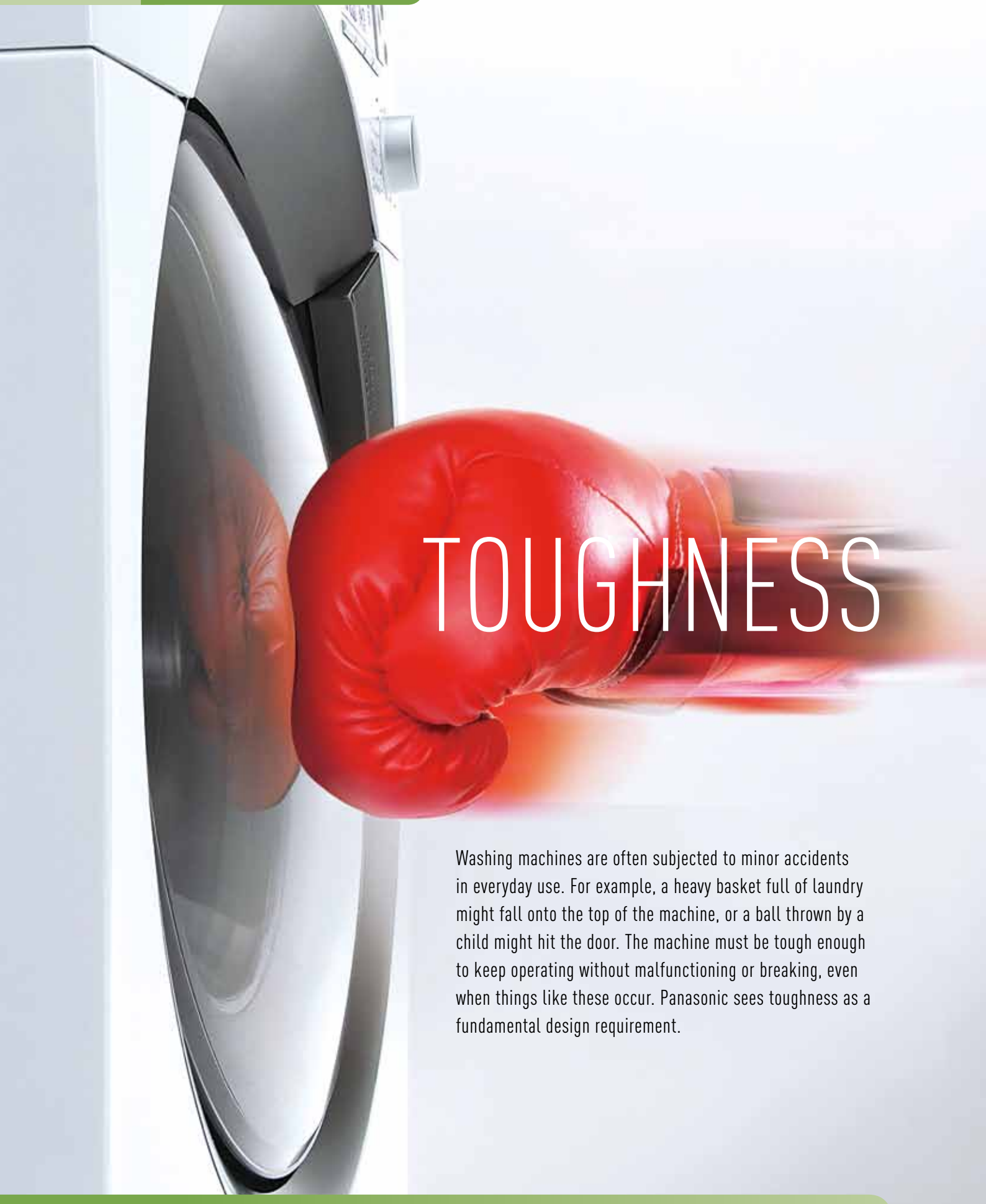
The outer drum is made of a resin mixed with glass fibre for improved durability.

*Based on IEC (International Electrotechnical Commission) energy label standards.

The hinges are nickel plated for rust prevention.

Door Open-Close Durability Test
To confirm that the latches and hinges will not become loose over many years of use, Panasonic conducts open-close durability tests for doors repeatedly and continuously over 20,000 times.

Button Operation Durability Test
The durability of the buttons is assured to prevent malfunctions or faulty contacts even when used for an extended period of time. A total of 20,000 push operation tests are carried out.



TOUGHNESS

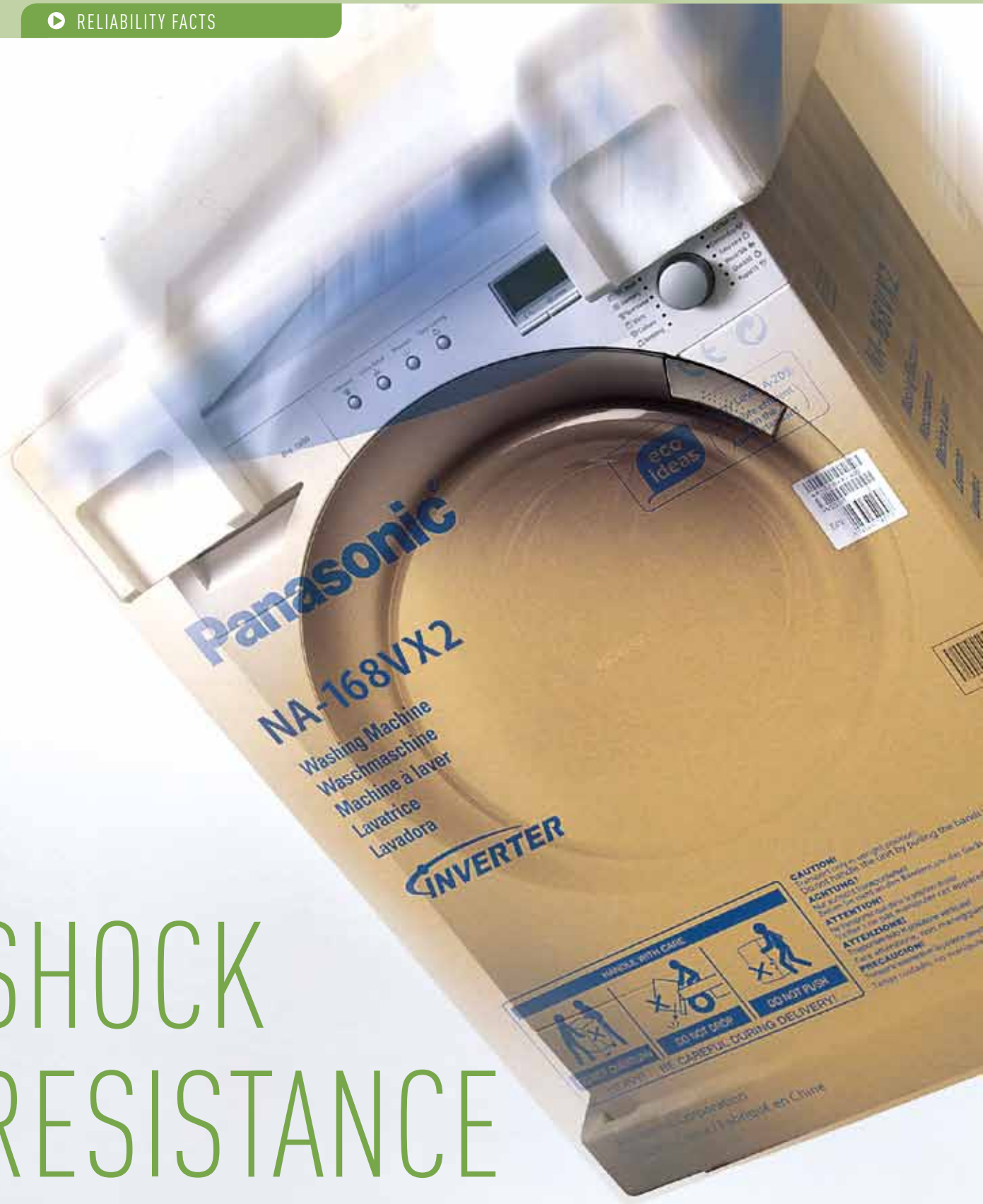
Washing machines are often subjected to minor accidents in everyday use. For example, a heavy basket full of laundry might fall onto the top of the machine, or a ball thrown by a child might hit the door. The machine must be tough enough to keep operating without malfunctioning or breaking, even when things like these occur. Panasonic sees toughness as a fundamental design requirement.

Subjected to extreme force, no damage

Lid Strength Test To ensure that the lid will not be deformed or damaged in case an unexpected amount of force is applied to it, a large number of situations that could possibly arise during daily use are considered. A full 600 newtons (60kg·m/s^2) of force is applied to the front surface. In addition, a test is conducted in which 300 newtons (30kg·m/s^2) of force is applied from above with the lid open. The latch is checked to ensure that it is not damaged, and that no problems occur in its opening and closing operation.

Top Board Strength Test A full 600 newtons (60kg·m/s^2) of force is applied perpendicularly to the top board to confirm that the pressure will not cause dents or cracks.

Door Release Button Operation Test Based on the Universal Design concept, comfortable operation is pursued for all types of users. Panasonic confirms that the door release button will operate with the most suitable and comfortable pressing force for all people, regardless of age or gender.



SHOCK RESISTANCE

The distance from the factory to the user's home, and the time that it takes to get there, are different for each washing machine that is shipped. Because of this, we simulate impacts, vibrations and other environmental conditions that washing machines might be subjected to during transport. Panasonic promises that the quality and performance at the time of the final product inspection are unchanged when the product reaches the user's home.

Vigorous drop tests, but no breakage

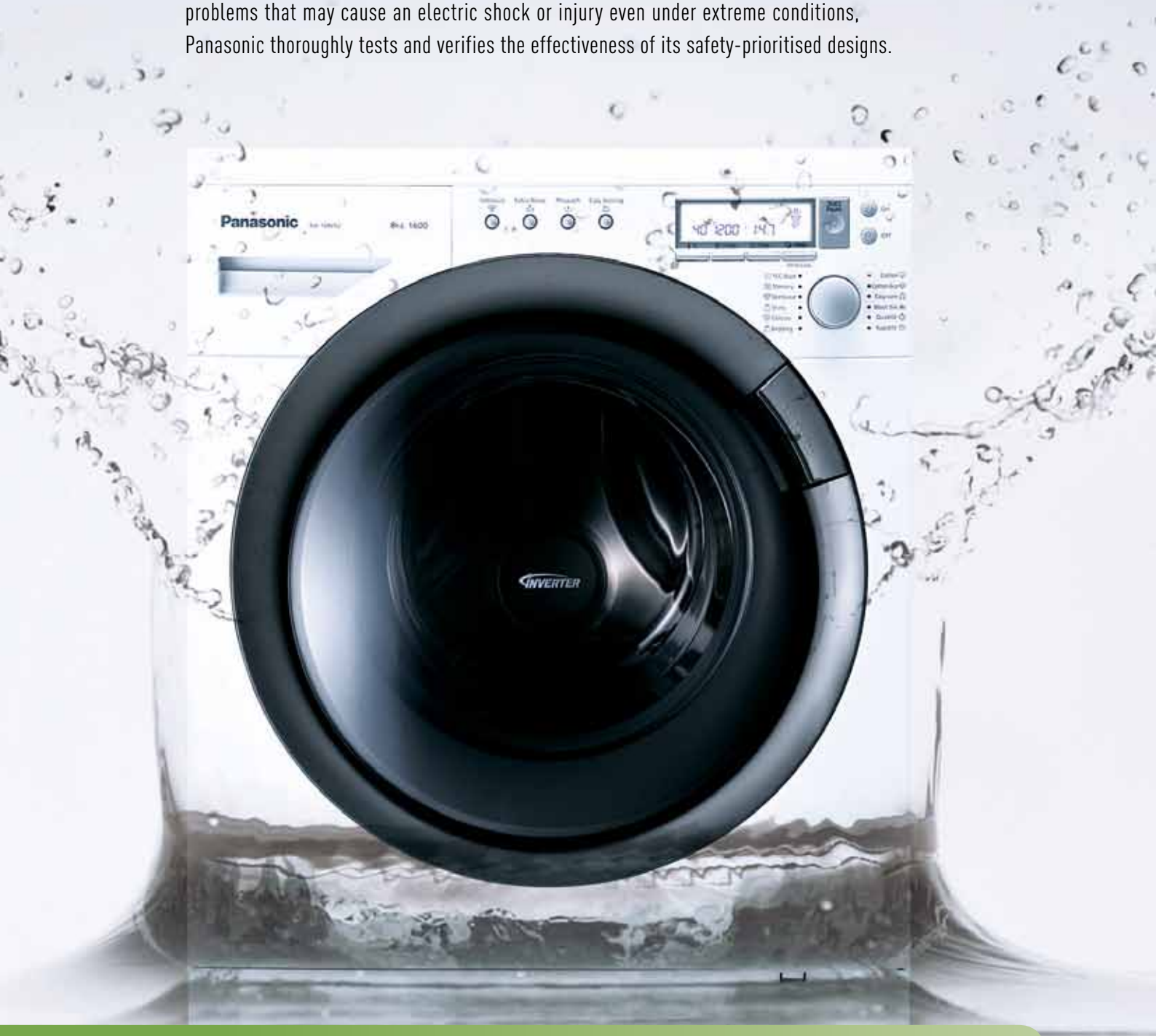
Drop Test Even with the large impacts that may occur due to improper handling during transportation, the product packaging has been strengthened to prevent it from being damaged. In addition to conventional vertical dropping, more severe conditions in which the corners or sides hit the floor first are carefully tested to ensure that the product's rigidity and shock-absorbing materials work to prevent problems.

Vibration Test Preventing damage that would hinder the product's performance due to vibration during transport is a major role of the packaging. Panasonic reproduces this kind of vibration and confirms that the product operates properly after the tests are carried out.

Warehouse Storage Test During distribution, products may be subjected to extended warehouse storage under unfavourable conditions. To simulate these conditions, product packages are left stacked in a room at a temperature of 40°C for a prolonged period. Then the products are checked for proper operation.

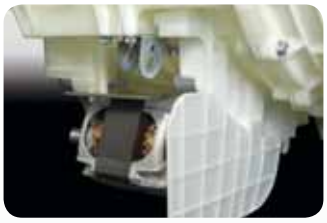
SAFETY

Washing machines use electricity, large amounts of water, and heat at the same time. In a sense, they are unique among home appliances in that they require special know-how in their development and production. Because of this, experience that is accumulated over the years is important for designing washing machines that offer high levels of safety. To prevent problems that may cause an electric shock or injury even under extreme conditions, Panasonic thoroughly tests and verifies the effectiveness of its safety-prioritised designs.



Electrical safety even under forced wet conditions

Insulation Test in the Leak Condition Ordinarily, a sensor detects when water is about to leak and stops the water supply. However, Panasonic pursues safety in even harsher conditions. With power supplied to the product and the sensor turned off, a large amount of water is poured into the drum so that water leaks from the body. Then 230 volts of electricity is applied to the product under the above conditions to confirm that there is no electrical leakage or short-circuiting. The insulation performance is tested under extremely stringent conditions by adding detergent to the water in order to duplicate actual use and increase the electrical conductivity.



The extended cover prevents the motor from getting wet even if water should enter the interior.

For overheating as well ...
In the event of overvoltage or a motor overload, a sensor detects the condition. This prevents situations that may lead to the overheating or ignition of the motor coil. Also, as a safety precaution, the coil is insulated by a metallic fireproof cover.

Insulation Test with Water Injection By creating situations that may seem impossible during regular use, we test to make sure that no water penetrates inside. A special syringe is used to inject coloured water into the gaps between the operation buttons where water is prone to enter. Then we disassemble the machine and check to make sure that there is no coloured water adhering to interior parts.

Contact sections on the printed circuit board are resin-potted to prevent adverse effects caused by droplets of water.

Safety

Lid Lock Release Temperature Test

Because the drum interior becomes extremely hot during use, a serious accident could occur if the lid were to open while any interior parts that could be touched were still hot. In order to prevent this, the lid lock is designed to stay locked when the temperature in the drum exceeds approximately 60°C. Using a thermistor, this test confirms that the lock function operates properly under the designed temperature conditions.

Erroneous Button Operation Test

To confirm that pressing does not cause erroneous activation of any buttons, pressure is applied to locations between buttons on the control panel.

Test-Finger Test

In order to completely eliminate the possibility of unexpected injuries while using the washing machine, Panasonic carefully checks the external parts using mock fingers. This test makes sure that fingers will not be pinched in door gaps when opening or closing the door, and that fingers will not be cut by panel edges. Both adult and child-size mock fingers are used from the perspective of Universal Design.

All edges of metal parts that may come into contact with the hands are curved in order to prevent possible injury.

Ultimate Cooking Matters

Microwave Ovens

Combination ovens use refined microwave cooking, adding the traditional browning and roasting of a conventional oven.

Combination ovens use advanced technology to ensure food is cooked perfectly, and in a variety of ways, whilst saving energy.

Roasting a Whole Chicken in the award winning Panasonic Combination Microwave oven (NN-CF778S) **in half the time saving 25% energy** compared to cooking in a conventional oven.

Traditionally the preserve of the large oven, a roast meal can be prepared and cooked in a combination oven faster, saving energy, allowing you to be more creative, or simply to spend more time out of the kitchen!

ENERGY SAVING - COOK WITH A CONSCIENCE

Panasonic ovens use a range of processes to save energy consumption. Ovens with Inverter technology cook faster, and at lower energy requirements when needed – contributing to reduce electricity bills and CO^2 emissions. Look out for models with energy save mode, this is our commitment to produce energy-efficient products.

All images are for illustrative purposes only and are not reflective of the actual recipes

THE CHEF TAKES CONTROL!

Our range of ovens suit the cooking requirements of everyone. Whether you simply want to reheat or defrost and cook, or if you want to bake for an entire dinner party, you'll find there's an oven that will become your best friend in the kitchen. Imagine having the ability to bake mouth-watering cakes, wow with a soufflé, or serve up a perfect roast lunch with all the trimmings – saving time and energy – well now you can!

AN EXTRA PAIR OF HANDS

Across the range of Panasonic ovens you'll discover a wealth of extra features designed to make life much easier. Auto programs take the guesswork out of perfect cooking, Turbo Reheat boosts microwave power, ideal for reheating foods and Chaos Defrost speeds up defrosting times with a special process that means no more part cooked food with frozen areas in the middle.

LEARN COOK & SHARE! www.theideaskitchen.co.uk

Our Ideas Kitchen website is designed to help you get the most out of your Panasonic microwave oven. Learn more about how to use your microwave oven and achieve the best results. Use your imagination and creativity whilst saving time, by accessing hundred's of recipes. Watch video tutorials from our expert Chef-Daniel Galmiche, Head Chef at The Vineyard, or pick up some tips and tricks to help your everyday cooking experience. Plus share your thoughts and ideas with likeminded people in our Forums.

A RECIPE FOR PERFECTION

The Flatbed design gives you more usable space and provides greater flexibility on the size and shape of dishes that you can use. Furthermore, with the NN-CF778S, the drop-down door can be used as a convenient shelf, when removing dishes from the oven.

Flatbed Combination Ovens can be easily cleaned thanks to the catalytic self cleaning back plate. This self-cleaning process takes place when the convection oven is in use and is performed as a continuous process so there is no build up of food or grease.

In convection mode, the two shelves provide all the versatility of a traditional oven - perfect for batch baking or cooking large dishes of food that would not normally fit on the turntable.

EVEN COOKING

You'll find Panasonic's Inverter technology on most of our microwave models.
This gives constant energy on medium and low power settings (instead of switching on and off as traditional microwave ovens do) – providing the perfect, even cooking process for your food whilst saving energy. Ovens with Inverter technology weigh approximately 3kg less than a traditional oven – easy to move for cleaning!

SLIMLINE OVENS SAVING SPACE, ENERGY AND TIME

Space in your kitchen is always at a premium – especially when preparing ingredients. Designed with a fan in the roof of the oven – above the grill, to allow hot air to circulate around the cavity, creating convection heat from the top down.Our stylish slimline ovens offer the benefits of a basic combination oven, but with a smaller 'footprint' – up to 20% with selected models.

CRISP AND BROWNED TO PERFECTION

Selected models have the additional benefit of a Panacrunch pan which conducts heat through the pan. Placed directly on the turntable, the Panacrunch will brown and crisp food such as bacon and quiche – no more soggy pizza!

Combination Ovens

THE ULTIMATE IN COOKING PERFORMANCE

Combining the efficiency of a microwave with the traditional browning and roasting of a conventional oven.

Flatbed Combination Ovens

NN-CF760MBPQ

Flatbed Large Dish Capacity

- Family size 27 Litre Capacity
- Fan Assisted Convection Oven
- 2 Shelf Cooking
- Inverter Technology
- Energy Save
- Metallic Silver

FLATBED

NN-CF750WBPQ

Flatbed Large Dish Capacity

- Family size 27 Litre Capacity
- Fan Assisted Convection Oven
- 2 Shelf Cooking
- Inverter Technology
- Energy Save
- Crisp White

FLATBED

Award Winning NN-CF778SBPQ

Flatbed Drop down door Large Dish Capacity

- Family size 27 Litre Capacity
- Fan Assisted Convection Oven
- 2 Shelf Cooking
- Inverter Technology
- Energy Save
- Stainless Steel

FLATBED

Sensor Combination Ovens

NN-CT890SBPQ

Sensor Cook
Large Capacity Oven

- Large family size 32 Litre Capacity
- Fan Assisted Convection Oven
- Inverter Technology
- 1000W Power Output
- Energy Save
- Stainless Steel

NN-CT880MBPQ

Sensor Cook
Large Capacity Oven

- Large family size 32 Litre Capacity
- Fan Assisted Convection Oven
- Inverter Technology
- 1000W Power Output
- Energy Save
- Metallic Silver

NN-CT870WBPQ

Sensor Cook
Large Capacity Oven

- Large family size 32 Litre Capacity
- Fan Assisted Convection Oven
- Inverter Technology
- 1000W Power Output
- Energy Save
- Crisp White

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LIGHT AND FLUFFY PERFECTION IN JUST 15 MINUTES

Butter Cream Lime Cup Cakes

Suitable for all Panasonic Combination microwaves

Ingredients

175g (6oz) butter
175g (6oz) caster sugar
3 eggs, beaten
175g (6oz) self raising flour
Icing sugar
1 lime, 1 lemon

Cooking Method

1 Preheat oven on **CONVECTION** 180°C.
2 Cream together butter and sugar until light and fluffy.
3 Add eggs a little at a time, beating well after each addition.
4 Fold in flour.
5 Fill the paper cases two-thirds full with mixture.
6 Cook on **CONVECTION** 180°C for 15 mins.
7 Mix icing sugar, butter and 1 tbsp of milk together to form paste.
8 Ice cakes using a flat knife and sprinkle with lime and lemon zest.

For more recipes, tips and advice contact our **Cookery Advice Line**

Slimline Combination Ovens

NN-CT579SBPQ

Slim Design 20% Space Saving

- Family size 27 Litre Capacity
- 100 - 220°C (Convection Heater)
- Inverter Technology
- 1000W Power Output
- Energy Save
- Stainless Steel

BEST BUY which? www.which.co.uk Microwaves July 2010

20% SPACE SAVING

NN-CT569MBPQ

Slim Design 20% Space Saving

- Family size 27 Litre Capacity
- 100 - 220°C (Convection Heater)
- Inverter Technology
- 1000W Power Output
- Energy Save
- Metallic Silver

BEST BUY which? www.which.co.uk Microwaves July 2010

20% SPACE SAVING

NN-CT559WBPQ

Slim Design 20% Space Saving

- Family size 27 Litre Capacity
- 100 - 220°C (Convection Heater)
- Inverter Technology
- 1000W Power Output
- Energy Save
- Crisp White

BEST BUY which? www.which.co.uk Microwaves July 2010

20% SPACE SAVING

WHAT CAN I COOK?

Panasonic's feature packed combination ovens are the most flexible cooking appliances in the market with convection, grill and microwave functionality, your meal choices are endless.

You can bake a jacket potato to perfection, roast a chicken in 45 minutes, or bake two trays of 12 fairy cakes thanks to the 2 shelf cooking.

Microwave with Grill

MICROWAVE WITH TRADITIONAL RESULTS

THIS RANGE OF OVENS CRISPS AND TOASTS LIKE AN ORDINARY GRILL BUT WITH ALL THE BENEFITS OF A MICROWAVE OVEN.

WHAT CAN I COOK?

Panasonic's microwaves with grill offer three different ways to cook; microwave only, grill only or grill with microwave.

Now you can effortlessly cook and brown food to produce delicious and appertising dishes such as macaroni cheese, lasagne and pizza.

NN-GD560MBPQ

Inverter for even cooking
Enhanced Grill Power

- Family size 27 Litre Capacity
- Inverter Technology
- 900W Power Output
- Quartz 1300W Grill Power
- Panacrunch Pan
- Energy Save
- Metallic Silver

Selected models have the additional benefit of a Panacrunch pan which conducts heat through the pan. Placed directly on the turntable, the Panacrunch will brown and crisp foods.

NN-GD379SBPQ

Inverter for even cooking
Enhanced Grill Power

- 20 Litre Capacity
- Inverter Technology
- 850W Power Output
- Quartz 1100W Grill Power
- Chaos Defrost
- Stainless Steel

NN-K189MMBPQ

Compact Design
Touch Panel

- 16 Litre Capacity
- 700W Power Output
- 1000W Grill Power
- Auto Defrost
- 9 Auto Programs
- Energy Save
- Metallic Silver

NN-K179WMBPQ

Compact Design
Touch Panel

- 16 Litre Capacity
- 700W Power Output
- 1000W Grill Power
- Auto Defrost
- 9 Auto Programs
- Energy Save
- Crisp White

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Microwave Only

EFFORTLESS COOKING WITH SPEED

REHEAT AND COOK FOOD TO PERFECTION. FLEXIBLE FEATURES TO MAKE EVERYDAY COOKING SIMPLE.

NN -SF460MBPQ

Flatbed with Large Dish Capacity

- Family Size 27 Litre Capacity
- Inverter Technology
- 900W Power Output
- Chaos Defrost
- Turbo reheat
- Energy Save

FLATBED

NN -ST479SBPQ

Sensor One Touch Cooking

- Family Size 27 Litre Capacity
- Inverter Technology
- Sensor Cook
- 900W Power Output
- Chaos Defrost
- Turbo Reheat
- Energy Save

WHAT CAN I COOK?

Panasonic's microwave ovens are designed to reheat and cook to perfection. Enjoy baking scrumptious syrup puddings, reheat your soup or cook your veggies to perfection!

NN-SD460MBPQ

Inverter Technology
Easy to Use

- Family Size 27 Litre Capacity
- Inverter Technology
- 900W Output Power
- Chaos Defrost
- Stainless Steel Lining
- Also available in
  Crisp White – NN-SD440WBPQ

NN -SD279SBPQ

Inverter Technology
Auto Defrost

- 22 Litre Capacity
- 850W Power Output
- Energy save
- Stainless Steel Finish
- Also available in
  Metallic Silver – NN -SD269MBPQ,
  Crisp White – NN-SD259WBPQ

NN -E299SMBPQ

Compact Size
Auto Defrost

- 19 Litre Capacity
- 700W Power Output
- Stainless Steel Finish
- Also available in
  Metallic Silver – NN-E289MMBPQ,
  White – NN-E279WMBPQ,
  Black – NN-E289BMBPQ

A Whole Lot of Goodness Inside

Healthy, fresh bread every day. Best of all, you can choose your own wholesome ingredients – the Panasonic Breadmaker does the rest.

SD-257WXC
Automatic Breadmaker

- Comprehensive Bake Programmes
  including basic white, whole wheat, 100% rye, gluten-free, brioche
- Raisin/Nut Dispenser
  add additional ingredients automatically during kneading process
- 3 Loaf Sizes: Medium, Large or Extra Large
- Dough Programme for Pizza, Rolls, Baguettes
- Bake-Only Mode for cakes and teabreads
- Rapid Bake: 1H 55Min
- 13-Hour Delay Timer
- 10-Minute Power Interruption Protection
- UK Recipe Book - developed in UK Home Appliance Centre

SD-256WXC
Automatic Breadmaker

- Comprehensive Bake Programmes
  including basic white, whole wheat, gluten-free, brioche
- Raisin beep to add additional ingredients
- 3 Loaf Sizes: Medium, Large or Extra Large
- Dough Programme for Pizza, Rolls, Baguettes
- Bake-Only Mode for cakes and teabreads
- Rapid Bake: 1H 55Min
- 13-Hour Delay Timer
- 10-Minute Power Interruption Protection
- UK Recipe Book - developed in UK Home Appliance Centre

With their modern, stylish finish in white with cool-touch housing, these breadmakers are an ideal addition to your home. An angled, easy-to-use control panel offers simplicity of design, ensuring ease of operation.

Diamond-coated Bread Pan

Unique to Panasonic, the non-stick surface of the bread pan is coated with diamond particles which makes it twice as tough and hardwearing as conventional pans.

Raisin/Nut Dispenser

With the automatic Raisin/Nut Dispenser, you can easily add additional ingredients to your recipe. (SD-257W only)

Gluten-free Programme

Both the SD-257W and SD-256W can bake gluten-free loaves using a wide range of gluten-free products.

Thanks to the brioche programme, you can now bake delicious brioche loaves.

Clean Results Matter

Vacuum Cleaners

High-performance cleaning that keeps the dirt in the vacuum and away from your family.

Truly Clean

Realising high suction power with maximum efficiency, Panasonic vacuum cleaners take the effort out of cleaning. Features like ECO-MAX motor, HEPA Filter and multiple surface nozzles make cleaning a breeze.

SPECIAL FEATURES

HEPA Filter

These filters offer superior cleaning and durability. Unlike normal filters, the micro-thin membrane traps dust and dirt on the surface, while allowing air to pass through more efficiently, reducing the chance of clogging.

ECO-MAX

Panasonic vacuum cleaners provide superior suction power using the high-efficiency ECO-MAX Engine with a patented 3D-inducer Fan. The result is more performance with less energy consumption.

ECO MAX
MEGA SUCTION POWER

1500W MAX.INPUT 350W SUCTION

Providing superior cleaning power using the high-efficiency Eco-Max Engine with a patented 3D-inducer Fan. The result is more performance with less energy consumption.

The new Panasonic upright bagless vacuum cleaner's unique Eco-Max motor uses energy more efficiently to deliver unrivalled suction power.

It's part of a smart new generation of home appliances from Panasonic that use innovation and energy more inventively for better performance.

Intelligent living matters,
EVERYTHING MATTERS.

UNRIVALLED SUCTION WITH MAXIMUM EFFICIENCY

MC-UL594SP47
Bagless Upright Vacuum Cleaner

- ECO-MAX Motor with 1500W
- 350W Suction Power
- Capacity: 2.5l
- Hose: 3.5m
- Cord: 7.5m
- All Floors
- High-Efficiency HEPA H10 Air Filtration System
- Lightweight: 8.8kg
- 15-Stair Hose reach

BEST BUY which? www.which.co.uk Vacuum Cleaners July 2010

Good Housekeeping Institute APPROVED 2010

MC-UL592WP47
Bagless Upright Vacuum Cleaner

- ECO-MAX Motor with 1400W
- 300W Suction Power
- Capacity: 2.5l
- Hose: 3.5m
- Cord: 6m
- All Floors
- High-Efficiency HEPA H10 Air Filtration System
- Lightweight: 8.6kg
- 13-Stair Hose reach

MC-UG304KP47
Bagged Upright Vacuum Cleaner

- 2000W motor
- 290W Suction Power
- 6.1 litre dust bag capacity with bag full indicator
- Edge to edge cleaning and auto height adjustment
- Lightweight at only 6.3kg
- Comes with crevice nozzle, dusting brush and extension tube, all stored on-board
- 5 replacement dust bags included

MC-UG302WP47
Bagged Upright Vacuum Cleaner

- 1900W motor
- 260W Suction Power
- 6.1 litre dust bag capacity with bag full indicator
- Edge to edge cleaning and auto height adjustment
- Lightweight at only 6.3kg
- Comes with crevice nozzle, dusting brush and extension tube, all stored on-board
- 5 replacement dust bags included

MC-CG695ZP47
Bagged Cylinder Vacuum Cleaner

- ECO-MAX Motor with 1300W
- 450W Suction Power
- Capacity: 3l
- Hose: 1.9m
- Cord: 7m
- All Floors
- High-Efficiency HEPA H10 Air Filtration System
- Lightweight: 5kg
- Deluxe 2-Step Floor Nozzle
- Quiet 72 Decibels

MC-CG691RP47
Bagged Cylinder Vacuum Cleaner

- ECO-MAX Motor with 1300W
- 450W Suction Power
- Capacity: 3l
- Hose: 1.9m
- Cord: 5m
- All Floors
- High-Efficiency HEPA H10 Air Filtration System
- Lightweight: 5kg
- 2-Step Floor Nozzle
- Quiet 75 Decibels

MC-CG383RP47
Bagged Cylinder Vacuum Cleaner

- 1800W motor
- 380W Suction Power
- 4.2 litre dust bag capacity
- Telescopic hose
- Cord rewind pedal
- 2 in 1 crevice nozzle and dusting brush
- Lightweight at only 3.8kg

Power and Precision

Taking shaving to a new dimension.

Panasonic WET/DRY technology allows your shaver to be fully immersed in water, enabling you to shave dry or wet with any shaving lather - a perfect substitute to the traditional razor.

Multi-flexible active head for best contour shave ever
The next generation of shaving technology: 3D fully flexible shaver head constantly keeps contact with your face; while micro-vibrations squeeze out stubble for the closest shaving results ever.

ES-LA93-K
WET/DRY 4-Blade Men's Shaver

- Can be Used for Wet or Dry Shaving
- Washable - 100% waterproof
- 4-Blade Cutting System + finishing foil
- Multi-Flexible Active Head - LOCK/FLEX switch
- Active Vibrating Head - squeeze out whiskers
- Curved Arc Foil + sharpest nano-edged inner blades
- Automatic Cleaning and Charging System
- Linear Motor with 14,000RPM[1]
- 45Min (2-weeks) Cordless Use (1hr charge)
- LCD Display

ES8249S
WET/DRY 4-Blade Men's Shaver

- Can be Used for Wet or Dry Shaving
- 4-Blade Cutting System
  with finishing foil
- Curved Arc Foil + nano-sharpe blades
- Multi-Flexible Pivoting Head (+ lock switch)
- Automatic Clean and Charge System
- Linear Drive Motor with 13,000RPM[1]
- 45Min (approx. 2 weeks) Cordless Use
  1h charge
- LCD Display

[1] RPM motor speed when battery is fully charged. It may be reduced while using until recharged.

ES-RT81-S/ES-RT51-S/ES-RT31-S
WET/DRY Men's Shaver

- Can be Used for Wet or Dry Shaving
- Washable
  100% waterproof
- 3-Blade Cutting System
- Foil Shaver
  and 30° nano-edged inner blades
- Pivoting Head
- Automatic Cleaning and Charging System
  (ES-RT81-S)
- Motor with 10,000RPM[1]
- 45Min Cordless Use
  1h charge
- LCD Display (ES-RT81-S/ES-RT51-S)

(Available Sept 2010)

ESRF41/ESRF31
WET/DRY 4-Blade Men's Shaver

- Can be Used for Wet or Dry Shaving
- 4-Blade Cutting System
  with finishing foil
- Curved Arc Foil
  and 30° nano-edged inner blades
- Multi-Flexible Pivoting Head
- Fast 10,000RPM[1] Motor
- 45Min (approx. 2 weeks) Cordless Use
  1h charge
- 5 LED (ESRF41); 3 LED (ESRF31)
  charge indicator
- Charging Station (ESRF41)

[1] RPM motor speed when battery is fully charged. It may be reduced while using until recharged.

ES-RW30-S
WET/DRY Men's Shaver

- Can be Used for Wet or Dry Shaving
- Washable
  100% waterproof
- 2-Blade Cutting System
- Multi-Directional Pivoting Head
- Motor with 8,800RPM[1]
- 21Min Cordless Use
- Charging Station

Always in Perfect Trim

Panasonic grooming products offer precise control and the highest cutting performance.

(Available Oct 2010)

ER2061K
Beard/Hair Trimmer

- Stainless Blades
- Easy-to-Adjust Comb
  with quick dial
- 12 Different Cutting Lengths
  from 2 to 18mm
- Cord/Cordless
- 50Min Cordless Use
- Universal Voltage (100-240V)

SPECIAL FEATURES

Quick adjust dial
for easy length setting

Beard adjustment comb can be easily adjusted and controlled with quick adjust dial. Wheel is fixed during use to avoid any movement.

Precise blades
for perfect results

Stainless blades guarantee perfect and precise grooming results for the highest cutting performance. Long blade life of up to 3 years[1].

ER2403K
Beard Trimmer

- Can be Used for Wet or Dry Trimming
- Washable
  100% waterproof
- Stainless Blades
- 5 Different Cutting Lengths
  from 3 to 15mm
- Battery Operated (2 x AA)

ER-GY50-K
Body Shaver

NEW

- For Wet or Dry Use
  even under the shower
- Stainless Blades
- 4 Attachment Combs
- Body Trimming – 3 Different Lengths
  from 3 to 9mm
- Beard Trimming – 9 Different Lengths
  from 2 to 14mm
- Body Shaving – Foil Shaver
- Pop-Up Trimmer
- 30Min Cordless Use
- Universal Voltage

(Available Sept 2010)

ER-GN30
Nose/Ear Hair Trimmer

- Washable - 100% waterproof
- Sharp 60° Stainless Blades
  do not pull on hair
- Battery Operated
- New precise and fast blade

NEW

(Available Sept 2010)

ER-GC50-K
Hair Clipper

- Washable for easy cleaning
- Stainless Blades
- 2 Attachment Combs
- 25 Different Cutting Lengths
  from 1 to 25mm
- Cord/Cordless
- 40Min Cordless Use
- Universal Voltage
- Ideal for Do It Yourself
- Ergonomic Design

Depilation – a Touch Smoother

Depilation with Panasonic gives your skin a perfectly gentle experience with silky smooth results for several weeks.

SPECIAL FEATURES

WET/DRY use
for gentle epilation

All models can be used for dry and wet epilation with foam. Hair is more easily grasped and removed when pores are open.

Double disc
for higher efficiency[1]

Recent double-disc epilation technology with 48 precise tweezers capture even fine hairs easily. It is 10% faster and more efficient[1].

Gentle Cap
for sensitive skin

Gentler – tweezing discs do not come in contact with skin. For consumers wanting an even more gentle epilation experience.

Beginner Cap
for first-time users

Cap covers epilation discs partly for first-time users.

[1] Compared with previous WET/DRY models from Panasonic. Effects may vary per person.

GENTLE FOOT CARE FILE

NEW

Fine stone disc rotates automatically to remove hard, dry skin speedily and smoothly from heels and feet.

NEW

ES-WD42-G
WET/DRY Epilator & Foot File

- 2-Disc Epilation with 48 tweezers
- Epilator Head for legs/arms
- Gentle Cap with skin protector
- Beginner Cap
- Gentle Foot Care Head
  to remove hard, dry skin from feet
- Washable
- Up to 40Min[1] Cordless Usage
  1h charge (Lith-Ion)

[1] Up to 40min cordless use with Gentle Cap & Beginner Cap. With standard Fast Cap up to 30min.

ES-WD72-P

WET/DRY Epilator & Shaver

- 2-Disc Epilation
  with 48 tweezers
- 2 Epilator Heads
  for legs/arms
  for underarms/bikini zone
- Gentle Cap
  with skin protector
- Beginner Cap
- Shaving Head with Trimmer
  for all areas
- Bikini Comb
- Washable
- Up to 40Min[1] Cordless Usage
  1h charge (Lith-Ion)

NEW

ES-WD52-A

WET/DRY Epilator & Shaver

- 2-Disc Epilation
  with 48 tweezers
- Epilator head
  for legs/arms
- Gentle Cap
  with skin protector
- Beginner Cap
- Shaving Head with Trimmer
  for all areas
- Bikini Comb
- Washable
- Up to 40Min[1] Cordless Usage
  1h charge (Lith-Ion)

[1] Up to 40min cordless use with Gentle Cap & Beginner Cap. With standard Fast Cap up to 30min.

NEW

Perfect Styling, Perfect Protection

Panasonic hair styling the technology for healthier, better-looking hair.

EH-HW32-K89
Straightener & Curler

- Photo ceramic coating (24mm plates)
  - Reduces colour fading by 75%
  - Maintains hair moisture by 30%
  - Increases hair gloss
- 5 temperature settings (130-170°)
- Curling attachments
  - 1 medium curl
  - 1 large curl
- 60 seconds heating up time
- Universal Voltage

IDEAS FOR LIVING

Panasonic is dedicated to enhancing your life with a range of specially-designed home appliances and personal care products. Experienced Panasonic engineers and designers have developed innovative and user-friendly products, such as refrigerators, washing machines, microwaves and shavers. These products incorporate unique Panasonic technologies that are also energy-saving.

- Energy-saving **Panasonic refrigerators** offer everything you need to keep food fresh and healthy, including a host of smart features that make the appliances easy to operate.
- Doing the laundry is very convenient with a **Panasonic washing machine**, which is kind to the environment and affordable. Additionally, due to their low-vibration design, Panasonic washing machines make significantly less noise.
- **Panasonic microwaves** feature advanced Inverter technology, which evenly and thoroughly heats food – enabling you to quickly prepare delicious meals.
- Baking various sorts of healthy bread at home has never been easier than with an advanced **Panasonic breadmaker.**
- **Panasonic vacuums** efficiently clean your carpet. The HEPA Filter, developed by the inventors of Gore-Tex, prevents dust and dirt escaping from the vacuum's exhaust.
- **Panasonic WET/DRY shavers and epilators** not only make personal care convenient, they also ensure the best results when caring for your skin.

The products in this catalogue were designed with the sole function of enhancing and simplifying your life. **Discover for yourself how good life can be.**

	SIDE-BY-SIDE FRIDGE FREEZERS	
Model	**NR-B53V1**	**NR-B54X1**
General Information		
Colour	Stainless Steel with anti-fingerprint	Arctic White
Gross Capacity	615l	615l
Total Net Capacity	530l	545l
Refrigerator Net Capacity	324l	339l
Freezer Net Capacity	206l	206l
No Frost Technology	Yes	Yes
Noise Level	38dB	38dB
Compressor	Inverter	Inverter
Energy Efficiency		
Energy Level	A++	A+
Energy Consumption	346kWh/year	398kWh/year
Vacuum Insulation Panel	Yes	–
Twin-Eco Cooling	Yes	Yes
Special Features		
Dedicated Compartments	0°C zone for meat and fish	0°C zone for meat and fish
	Vitamin-Safe	2°C zone
	5°C freshzone	5°C freshzone
Anti-Bacterial Function	Hygiene Active	Hygiene Active
Main Door Display		
Display	Touch-control white LED	White LED
Independent Temperature Controls	Yes	Yes
Door Open Alarm	Yes	Yes
Vitamin-Safe Function	Yes	–
5°C freshzone Function	Yes	Yes
Super Freezing	Yes	Yes
Hygiene Active Funtion	Yes	Yes
Holiday Mode	Yes	Yes
Eco Cooling Mode	Yes	Yes
Child Lock (locks Temperature Controls)	Yes	Yes
Ice/Water Dispenser		
Display	Touch-control white LED	White LED
Water, Ice Cubes, Crushed Ice	Yes	Yes
LED Lighting	Yes	Yes
Lever	Stainless Steel	Stainless Steel
Water Filter	Symbol for filter change	Symbol for filter change
Refrigerator Features		
Lighting	Front-tower LED (left & right)	Front-tower LED (left & right)
Tempered Glass Shelves	4 (height adjustable)	4 (height adjustable)
Drawer Case	0°C zone, Vitamin-Safe, 5°C freshzone	0°C zone, 2°C zone, 5°C freshzone
Door Pockets	5	5
Wine Rack	Full width for 4 bottles	Full width for 4 bottles
Deli Case	Yes	–
Egg Tray	Yes	Yes
Deodorising	Yes	Yes
Freezer Features		
Lighting	Front-tower LED (left)	Front-tower LED (left)
Tempered Glass Shelves	4	4
Drawer Case	3	3
Door Pockets	2	2
Ice Compartment	Integrated-type compact door	Integrated-type compact door
Freezing Capacity in 24h	15kg	15kg
Max Storage without Electricity	16 hours	16 hours
Measurements		
Height	1850mm	1850mm
Width	905mm	905mm
Depth	710mm	710mm
Weight	132kg	123kg
EAN Code	5025232532445	5025232532476

	2-DOOR FRIDGE FREEZERS	
Model	**NR-B30FX1**	**NR-B30FG1**
General Information		
Colour	Stainless Steel with anti-fingerprint	Arctic White
Total Net Capacity	309l	309l
Refrigerator Net Capacity	227l	227l
Freezer Net Capacity	82l	82l
No Frost Technology	Yes	Yes
Compressor	Inverter	Inverter
Energy Efficiency		
Energy Label	A++	A+
Energy Consumption	228kWh/year	270kWh/year
Special Features		
Fruit & Vegetable Compartment	Vitamin-Safe	Vitamin-Safe
Anti-Bacterial Function	Hygiene Active	Hygiene Active
Display	White LCD	White LCD
Independent Temperature Controls	Yes	Yes
Noise Level	36dB	37dB
Refrigerator Features		
Tempered Glass Shelves	4	4
Drawer Case	1	1
Lighting	LED	LED
Door Pockets	4	4
Wine Rack	For 4 bottles	For 2 bottles
Deodorising	Lifetime Zeolite filter	Lifetime Zeolite filter
Freezer Features		
Number of Drawers	3	3
Ice Cube Compartment	Yes	Yes
Freezing Capacity in 24h	15kg	15kg
Max Storage without Electricity	21h	16h
Programme Options		
Super Freezing	Yes (50h)	Yes (50h)
Holiday Mode	Yes	Yes
Door Open Alarm	Yes	Yes
Eco Cooling Mode	Yes	Yes
Child Lock (locks Temperature Controls)	Yes	Yes
Measurements		
Height	1874mm	1874mm
Width	600mm	600mm
Depth	637mm	637mm
Weight	86kg	80kg
Door Opening	Reversible door hinging, hinged right	Reversible door hinging, hinged right
EAN Code	5025232501014	5025232501007

WASHING MACHINES

Model	NA-168VX2	NA-168VG2	NA-148VA2	NA-128VA2	NA-147VB2
General Information					
Body Colour	White	White	White	White	White
Door Ring Colour	Titanium Silver	Silver	Silver	White	White
Load Capacity	8kg	8kg	8kg	8kg	7kg
Spin Speed	1600rpm	1600rpm	1400pm	1200pm	1400rpm
Energy Efficiency					
Energy Efficiency1	30% better than A	30% better than A	30% better than A	30% better than A	20% better than A
Energy Consumption2	1.03kWh (8kg)	1.03kWh (8kg)	1.03kWh (8kg)	1.03kWh (8kg)	1.04kWh (7kg)
Auto Power Off	Yes	Yes	Yes	Yes	Yes
Water Consumption					
Water Consumption2	50l	50l	50l	50l	44l
Special Features					
Wash Technology	3D Sensor Wash	3D Sensor Wash	3D Sensor Wash	3D Sensor Wash	3D Sensor Wash
Tilted Drum	Yes (10 degrees)	Yes (10 degrees)	Yes (10 degrees)	Yes (10 degrees)	Yes (10 degrees)
Foam Sensor	Yes	Yes	Yes	Yes	Yes
Balance Sensor	Yes	Yes	Yes	Yes	Yes
Auto Load Sensor	Yes	Yes	Yes	Yes	Yes
3D Acceleration Sensor	Yes	Yes	Yes	Yes	Yes
Wide-Angle Water Supply Shower	Yes	Yes	Yes	Yes	Yes
Time Delay	Yes (24h)	Yes (24h)	Yes (24h)	Yes (24h)	Yes (24h)
Remaining Time Indicator	Yes	Yes	Yes	Yes	Yes
Process indicator	Yes	–	–	–	–
Child Lock	Yes	Yes	Yes	Yes	Yes
Display White	LCD	LED	LED	LED	LED
Programmes					
Standard Programmes	12	12	12	12	12
Special Programmes	7	7	6	6	5
Spin Speed Options	9 (400–1600rpm)	4 (500-1600pm)	4 (500-1400pm)	4 (500-1200pm)	4 (500–1400rpm)
Temperature Options	8	5	5	5	5
Programme Options					
Intensive	Yes	Yes	Yes	Yes	Yes
Extra Rinse	Yes	Yes	Yes	Yes	Yes
Pre Wash	Yes	Yes	Yes	Yes	Yes
Easy Ironing	Yes	Yes	Yes	Yes	Yes
Security					
Water Leak Protection	Aqua Protection system	Yes	Yes	Yes	Yes
Water Hose Valve	Yes	–	–	–	–
Child Lock	Yes	Yes	Yes	Yes	Yes
Alarm	Yes	Yes	Yes	Yes	Yes
Energy Label Performance					
Energy Efficiency	A	A	A	A	A
Washing Performance	A	A	A	A	A
Spin Performance	A	A	B	B	B
Measurements					
Height	845mm	845mm	845mm	845mm	845mm
Width	596mm	596mm	596mm	596mm	596mm
Depth	625mm	625mm	625mm	625mm	625mm
Weight	85kg	85kg	85kg	85kg	85kg
Motor	Brushless Motor	Brushless Motor	Brushless Motor	Brushless Motor	Brushless Motor
Drum capacity	60l	60l	60l	60l	59l
Noise level Washing2	50dB	50dB	50dB	50dB	53dB
Noise Level Spinning2	73dB	73dB	70dB	70dB	76dB
EAN Code	5025232542024	5025232541959	5025232541881	5025232541744	5025232541812

[1] 30% or 20% more efficient than the A class standard (0.19 kWh/kg).
[2] Based on Cotton-Eco 60°C + Intensive programme.

MICROWAVES WITH GRILL

Model	NN-GD560M	NN-GD379S	NN-K189M	NN-K179W
Stainless Steel	–	NN-GD379SBPQ	–	–
Metallic Silver	NN-GD560MBPQ	–	NN-K189MMBPQ	–
White	–	–		NN-K179WMBPQ
Features & Benefits	**Inverter for even cooking Enhanced Grill Power**	**Inverter for even cooking Stainless Steel Design**	**Compact Touch Dial**	**Compact Touch Dial**
Eco Energy Saving	●	●	●	●
Oven Capacity	27 litre	20 litre	16 litre	16 litre
Output Power	900 W	850 W	700 W	700 W
Grill Power	1300W Quartz	1100W Quartz	1000 W	1000 W
Inverter technology	●	●	–	–
Turn Table Size	340mm	245mm	245mm	245mm
Defrost	Chaos	Chaos	Auto Weight	Auto Weight
Turbo Reheat	●	–	–	–
Control Panel	Touch / Dial	Buttons / Dial	Touch	Touch
Interior	Stainless Steel	Acrylic Grey	Acrylic Grey	Acrylic Grey
Round Panacrunch Pan	●	–	–	–
Auto Guide	●	–	–	–
Child Lock	●	●	●	●
Glass Turntable	●	●	●	●
Round Wire Rack	●	●	●	●
Interior Dimensions (W x D x H)	359 x 352 x 217	325 x 330 x 191	292 x 297 x 185	292 x 297 x 185
Exterior Dimensions (W x D x H)	510 x 380 x 304	482 x 364 x 284	433 x 327 x 258	433 x 327 x 258
Trim Kit	NN-TKT59MFP	–	–	–

	COMBINATION MICROWAVES					
	SENSOR	FLATBED		SLIMLINE		
Model	**NN-CT890S**	**NN-CF778S**	**NN-CF760M**	**NN-CT579S**	**NN-CT569M**	**NN-CT559W**
Stainless Steel	NN-CT890SBPQ	NN-CF778SBPQ	–	NN-CT579SBPQ	–	–
Metallic Silver	NN-CT880MBPQ	–	NN-CF760MBBPQ	–	NN-CT569MBPQ	–
White	NN-CT870WBPQ	–	NN-CF750WBPQ	–	–	NN-CT559WBPQ
Features & Benefits	Sensor Cook Large Capacity Oven 2 Shelf Cooking	Flatbed Design Large Dish Capacity Drop Down Door	Flatbed Design Large Dish Capacity Easy Cleaning	Slim Design 20% Space Saving –	Slim Design 20% Space Saving –	Slim Design 20% Space Saving –
Eco Energy Saving	●	●	●	●	●	●
Oven Capacity	32 litre	27 litre	27 litre	27 litre	27 litre	27 litre
Fan Assisted Convection Oven	40°C then 100-250°C	40°C then 100-250°C	40°C then 100-250°C	100-220°C (Convection Heater)	100-220°C (Convection Heater)	100-220°C (Convection Heater)
Inverter Technology	●	●	●	●	●	●
Turntable	340mm	Flatbed Design	Flatbed Design	340mm	340mm	340mm
Sensor Cook	●	–	–	–	–	–
2 Shelf Cooking	●	●	●	–	–	–
Output Power	1000 W	1000 W	1000 W	1000 W	1000 W	1000 W
Grill Power	1500W Radiant	1300W Quartz	1300W Quartz	1300W Quartz	1300W Quartz	1300W Quartz
Auto Programs	21	16	16	13	13	13
Control Panel	Button / Touch	Dial / Touch	Dial / Touch	Button	Touch	Touch
Interior	Enamel Easy Clean	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Child Lock	●	●	●	●	●	●
Auto Guide	●	●	●	●	●	●
Chaos Defrost	●	●	●	●	●	●
Turbo Bake	●	●	●	–	–	–
Memory	●	●	●	–	–	–
Catalytic Cleaning	Upper Plate	Back Plate	Back Plate	–	–	–
Splashguard	●	–	–	–	–	–
Wire Rack (High/Low)	●	–	–	● (High)	● (High)	● (High)
Enamel Tray & or Shelf	Tray / Shelf	Shelf	Shelf	Round	Round	Round
More Accessories	Wire Shelf	Wire Shelf & Glass Dish, Anti-Spark Ring	Wire Shelf & Glass Dish, Anti-Spark Ring	–	–	–
Interior Dimensions (W x D x H)	350 x 360 x 250	354 x 343 x 205	354 x 343 x 205	359 x 352 x 217	359 x 352 x 217	359 x 352 x 217
Exterior Dimensions (W x D x H)	530 x 508 x 344	531 x 534 x 328	529 x 494 x 326	520 x 395 x 310	520 x 395 x 310	520 x 395 x 310
Trim Kit	NN-TKA80M/W	NN-TKF78SBP	NN-TKF70MFP / NN-TKF70WFP	–	–	–

	MICROWAVE ONLY				
	FLATBED	SENSOR	FAMILY SIZE	COMPACT	
Model	**NN-SF460M**	**NN-ST479S**	**NN-SD460M**	**NN-SD279S**	**NN-E299S**
Stainless Steel	–	NN-ST479SBPQ	–	NN-SD279SBPQ	NN-E299SMBPQ
Metallic Silver	NN-SF460MBPQt	–	NN-SD460MBPQ	NN-SD269MBPQ	NN-E289MMBPQ
White	–	–	NN-SD440WBPQ	NN-SD259WBPQ	NN-E279WMBPQ
Black	–	–	–	–	NN-E289BMBPQ
Features & Benefits	Easy to Use Turbo Reheat Flatbed Design	Sensor One Touch Cooking Stainless Steel Interior Easy to Use	Easy to Use Multiple Auto Programs	Easy to Use Dial Auto Defrost	Compact Size Auto Defrost
Eco Energy Saving	●	●	–	●	●
Oven Capacity	27 litre	27 litre	27 litre	22 litre	19 litre
Inverter Technology	●	●	●	●	–
Sensor Cook	–	●	–	–	–
Output Power	900 W	900 W	900 W	850 W	700 W
Defrost	Chaos	Chaos	Chaos	Auto Weight	Auto Weight
Turbo Reheat	●	●	●	–	–
Turn Table Size	Flatbed Design	340mm	340mm	245mm	245mm
Auto Programs	18	18	11 (SD440 has 9)	9	9
Control Panel	Button	Button	Touch/Dial	Buttons/Dial	Touch
Interior	Acrylic Grey	Stainless Steel	Stainless Steel (SD440 is Acrylic Grey)	Acrylic Grey	Acrylic Grey
Turntable (Glass Turntable)	●	●	●	●	●
Auto Guide	●	●	●	–	–
Child Lock	●	●	●	●	●
Interior Dimensions (W x D x H)	354 x 338 x 200	354 x 352 x 217	359 x 352 x 217	325 x 330 x 218	292 x 297 x 216
Exterior Dimensions (W x D x H)	529 x 430 x 320	520 x 395 x 310	510 x 380 x 304	482 x 350 x 284	433 x 327 x 258
Trim Kit	NN-TKF60MFP	NN-TKT59SFP	NN-TKT59MFP / NN-TKT59WFP	–	–

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Model	BREADMAKERS	
	SD-257W	**SD-256W**
Colour	White/Silver	White
Voltage	230-240V 50Hz	230-240V 50Hz
Power Consumed	505-550W	505-550W
Plug	13 amp	13 amp
Capacity (loaf)	550g max 400g min	550g max 400g min
Capacity (dough)	600g max 250g min	600g max 250g min
Diamond Fluoro-Coated Bread Pan	Yes	Yes
Diamond Fluoro-Coated Kneading Blade	Yes	Yes
Raisin/Nut Dispenser	Yes (150g max)	–
Raisin Beep	–	Yes
Bread Programmes		
Basic White	Yes (3 crust colour options)	Yes (3 crust colour options)
Whole Wheat	Yes	Yes
French	Yes	Yes
Italian	Yes	Yes
100% Rye	Yes	–
Pizza Dough	Yes	Yes
Bake Only	Yes	Yes
Gluten-Free	Yes	Yes
Sandwich	Yes	Yes
Brioche	Yes	Yes
Dimensions (HxWxD) approx		
	370 x 280 x 330mm	370 x 280 x 330mm
EAN Barcode		
	5025232553532	5025232553570

Model	UPRIGHT VACUUM CLEANERS			
	MC-UL594	**MC-UL592**	**MC-UG304**	**MC-UG302**
Colour	Black	White	Black	White
Bagless				
Dust bin type	Single	Single	-	-
Reel Clean System	-	-	-	-
Easy empty Function	-	-	-	-
Sealed dust bin	Yes	Yes	-	-
Capacity of dust bin	2.5 l	2.5 l	-	-
Filter Refreshing System	Yes(manual)	Yes(manual)	-	-
Dust bin full indicator	-	-	-	-
Bagged				
Dust Bag Capacity	-	-	6.1l	6.1l
Dust Capacity	-	-	4.5l	4.5l
Bag full indicator	-	-	Yes	Yes
Power				
Power control	-	-	-	-
Input power (Max)	1500 W	1400 W	2000 W	1900 W
Input power (IEC)	1200-1300W	1200-1300W	1700 W	1700 W
Suction power	350 W	300 W	290 W	260 W
Sound				
Noise level (IEC)	84 dB	84 dB	82 dB	82 dB
Nozzle Head/Agitator				
2 Motor Concept	Yes	Yes	-	-
Edge to edge cleaning	Yes	Yes	Yes	Yes
Anti-scuff bumper	Yes	Yes	Yes	Yes
Automatic Agitator Stop	Yes	Yes	-	-
Automatic height adjustment	Yes	Yes	Yes	Yes
Cord				
Cord length	7.5 m	6.0 m	6.7 m	6.7 m
Auto Cord Rewind Function	-	-	-	-
Radius of Action	8.0 m	6.5 m	7.0m	7.0m
Hose				
Hose length	0.80 m	0.70 m	0.41 m	0.41 m
Hose reach	4.00 m	3.50 m	1.64 m	1.64 m
Hose Reach (+Wand)	5.2 m (13-step)	4.3 m (13-step)	2.6 m (11-step)	2.6 m (11-step)
Total Length - Hose Reach + Power Code	12.7 m	10.3 m	9.3 m	9.3 m
Body				
Net weight	8.8Kg	8.6Kg	6.3Kg	6.3Kg
Dimensions (H x W x L)	1100 x 372 x 391mm	1100 x 372 x 391mm	1045 x 323 x 320mm	1045 x 323 x 320mm
Filtration				
Main Filter(bagless)	HEPA	HEPA	-	-
Exhaust filter	HEPA	HEPA	Electrostatic	Electrostatic
Accessories				
Item	6	4	3	3
Mini-turbine nozzle	Yes	Yes	-	-
Hard floor nozzle	Yes	-		
Crevice nozzle	Yes	Yes	Yes	Yes
Dusting brush	Yes	Yes	Yes	Yes
Upholstery nozzle	-	-	-	-
Extension tube	Yes×2	Yes	Yes	Yes
Others				
Instant hose/wand operation	Yes	Yes	Yes	Yes
On-board tool storage	Yes	Yes	Yes	Yes

	CYLINDER VACUUM CLEANERS	
Model	**MC-CG695**	**MC-CG691**
Colour	Metallic Blue	Burgundy Red
Paper Dust Bag	AMC-J2EP	AMC-J2EP
Dust Bag Type	C-17H	C-17H
Dust Bag Capacity	4.2l	4.2l
Dust Capacity	3l	3l
Bag Full Indicator	Yes	Yes
Dust Bag Expand System (Opt-Flow)	Yes (semi)	Yes (semi)
Power		
Power Control	Yes (variable)	Yes (variable)
Input Power (max)	1300W	1300W
Input Power (IEC) General	1200W	1200W
Suction Power	450W	450W
Vacuum Pressure	22kPa	22kPa
Airflow	2.1m3/min	2.1m3/min
Sound		
Noise Level	72dBA	75dBA
Extension Rods		
Magic Telescopic	Yes (button lock)	–
Standard Telescopic	–	Yes
Floor Nozzle		
EZ Release	Yes	–
2-Step Deluxe Class	Yes	–
2-Step Standard	–	Yes
Wheel		
Soft Roller (rear)	Yes	Yes
Soft Caster Roller (front)	Yes	Yes
Handle		
Double Handle	–	–
Ergonomic Type	Yes	Yes
Cord		
Cord Length	7m	5m
Radius of Action	10m	8m
Hose		
Hose Length	1.9m	1.9m
Hose Type	Blow injection	Blow injection
Body		
Net Weight	5kg	5kg
Dimensions (L x W x H)	440 x 300 x 235mm	440 x 300 x 235mm
Exhaust		
HEPA	H10	H10
Electrostatic Filtration	–	–
Accessories		
Crevice Nozzle	Yes	Yes
Dusting Brush	Yes	–
Upholstery Nozzle	Yes (on handle)	Yes (on handle)
Others		
Stand by Storage	–	–
Park Position Stand	Yes	Yes
360° Swivel Hose	Yes	Yes
Cord Rewind Pedal	Yes	Yes
Dust Bag Fail-Safe Mechanism	Yes	Yes
On-Board Tool Storage	On handle	On handle
Operating Instructions		
PME/PME-DMG	A	A
JLE	A	A
PCUK	B	B
PEG	A	A

	SHAVERS	
Model	**ES-LA93-K**	**ES8249S**
WET/DRY Shaver	Yes	Yes
Shaving Head		
Blades	4	4
Inner Blade Angle	30° nano	30° nano
Curved Arc Foil	Yes	Yes
Finishing Foil	Yes	Yes
Flex Pivoting Head	Yes	Yes
Active Vibrating Head	Yes	–
Multi-Flexible Active Head	Yes	–
Features		
Washable	Yes	Yes
Auto Cleaning System	Yes	Yes
Sonic Vibrating Cleaning Mode	Yes	Yes
Indicator	LCD	LCD
Pop-Up Trimmer	Yes	Yes
Linear Motor	Yes	Yes
RPM	14,000	13,000
Charging Time (h)	1	1
Usage Time (min)	45	45
Battery Type	Lith-Ion	Lith-Ion
Universal Voltage (100–240V)	Yes	Yes
Replacement Parts		
Foil	WES9165Y	WES9161Y
Inner Blade	WES9068Y	WES9068Y
Foil and Blade Set	WES9025Y	WES9020Y
Detergent Cartridge	WES035	WES035
Logistic Data		
Material	ES-LA93-K803	ES8249S803
Pcs. Per Carton Box	3	3

	SHAVERS					
Model	**ES-RF41**	**ES-RF31**	**ES-RT81-S**	**ES-RT51-S**	**ES-RT31-S**	**ES-RW30-S**
WET/DRY Shaver	Yes	Yes	Yes	Yes	Yes	Yes
Shaving Head						
Blades	4	4	3	3	3	2
Inner Blade Angle	30° nano	30° nano	30° nano	30° nano	30° nano	60°
Curved Arc Foil	Yes	Yes	–	–	–	–
Flex Pivoting Head	Yes	Yes	Yes	Yes	Yes	Yes
Features						
Washable	Yes	Yes	Yes	Yes	Yes	Yes
Auto Cleaning System	–	–	Yes	–	–	–
Sonic Vibrating Cleaning Mode	Yes	Yes	–	–	–	–
Indicator	5 LED	3 LED	LCD	LCD	2 LED	–
Pop-Up Trimmer	–	–	Yes	Yes	Yes	Yes
Linear Motor	Yes	Yes	–	–	–	–
RPM	10,000	10,000	10,0001	10,0001	10,0001	8,8001
Charging Time (h)	1	1	1	1	1	8
Usage Time (min)	45	45	45	45	45	21
Battery Type	Lith-Ion	Lith-Ion	Ni-MH	Ni-MH	Ni-MH	Ni-MH
Universal Voltage (100–240V)	Yes	Yes	Yes	Yes	Yes	–
Replacement Parts						
Foil	TBC	TBC	WES9085Y	WES9085Y	WES9085Y	WES9835Y (ES9835)
Inner Blade	TBC	TBC	WES9064Y	WES9064Y	WES9064Y	WES9850Y
Foil and Blade Set	TBC	TBC	WES9012Y	WES9012Y	WES9012Y	WES9839Y
Detergent Cartridge	TBC	TBC	WES035	–	–	–
Logistic Data						
Material	TBC	TBC	ES-RT81-S503	ES-RT51-S503	ES-RT31-S503	ES-RW30-S503
Pcs. Per Carton Box	5	5	5	5	5	5

[1]RPM motor speed when battery is fully charged. It may be reduced while using until recharged.

Model	MENS GROOMING			
	ER2061K	ER2403K	ER-GY50-K	ERGN30
	Beard/Hair Trimmer Sep-10	Beardtrimmer	BodyShaver	Nose/Ear Trimmer Sep-10
Trimmer Head				
Blades	Stainless	Stainless	Stainless	Stainless Fine Cut
Attachments	1	1	4	
Cutting length (mm)	2-18	3-15	2-14	
Comb adjustment steps	12	5	12	
Shaver Head			Yes	
Pop-Up Trimmer			Yes	
Features				
WET/DRY			Yes	Yes
Washable/ easy to clean		Yes	Yes	Yes
Easy Quick Adjust Dial	Yes			
Indicator	1 LED			
Cord/ Cordless	Yes		Cordless	
Charging time (h)	8		8	
Usage time (min)	50		30	
Battery Type	NiMh	2xAAA not included	NiMh	battery-operated not included
Universal Voltage (100-240V)	Yes		Yes	
Replacement Parts				
Trimmer Blade	WER9601Y	WER9606Y	WES9752Y (ES9752)	
Foil			ES9775	
Logistic Data				
Material	ER2061K503	ER2403K503	ER-GY50-K503	
Pcs. per carton box	5	10	5	
EAN Barcode Pcs.	5025232500703	5025232433957	5025232547029	

Model	DEPILATION		
	ES-WD72-P	ES-WD52-A	ES-WD42-G
WET/DRY	Yes	Yes	Yes
Shaving System			
Epilator Head			
- for legs/arms	Yes	Yes	Yes
- for underarms/ bikini zone	Yes	–	–
Tweezing Discs	2	2	2
Tweezers	48	48	48
Gentle Cap w Skin Protector	Yes	Yes	Yes
Beginner Cap	Yes	Yes	Yes
Shaving Head	Yes	Yes	–
Foot Care Head	–	–	Yes
Bikini Comb	Yes	Yes	–
Features			
Washable	Yes	Yes	Yes
Rechargeable	Yes	Yes	Yes
Cord	–	–	–
Charging Time (h)	1	1	1
Usage Time (min)	40[1]	40[1]	40[1]
Battery Type	Lith-Ion	Lith-Ion	Lith-Ion
Universal Voltage (100–240V)	Yes	Yes	Yes
Replacement Parts			
File (for foot care head)	–	–	WES2W31Y
Logistic Data			
Material	ES-WD72-P503	ES-WD52-A503	ES-WD42-G503
Pcs. Per Carton Box	5	5	5

[1]Up to 40Min usage time with Gentle Cap and Beginner Cap. Standard Fast Cap up to 30min.

Model	HAIR CARE
	EH-HW32-K89
Colour	Black & red
Max Temperature	170 oC
Temp. Control	5-Positions
	(130 - 170) oC
Plate Coating	Photo Ceramic
Attachments	4 (1 medium & 1 large curl) 1 Straightener
Plate size	24 mm
Heat up	60 seconds
Cable length	2.0 meters
Power	Auto Voltage

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INTELLIGENT LIVING MATTERS

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